

Amendments to the Claims

This listing of claims will replace all prior versions, and listings, of claims in the application:

Listing of Claims:

1. (Original) Weight sensor with strain gauges deposited in a thick film on a support (2) of an electrically insulating material intended to be applied to a metal body (2) deformable primarily in flexure, characterized in that said support (2) is of a ceramic material having a Young's modulus E_2 equal to or lower than that E_1 of the deformable metal body (1) and that it is applied by adhering to the latter.
2. (Original) Weight sensor according to claim 1, characterized in that said body (1) presents a rectangular cross section having a thickness less than or equal to 15 mm.
3. (Previously presented) Weight sensor according to claim 1, characterized in that said body (1) is made of steel.
4. (Previously presented) Weight sensor according to claim 1, characterized in that said support (2) is selected from the group comprising a zirconia or yttria or cordierite or steatite ceramic.
5. (Previously presented) Weight sensor according to claim 1, characterized in that said support (2) is made of a ceramic cofired at low temperature.
6. (Previously presented) Weight sensor according to claim 1, characterized in that the thickness of said support (2) is comprised between 0.05 and 0.5 mm.

7. (Previously presented) Weight sensor according to claim 1, characterized in that it comprises a body of test (1) in the shape of a bar carrying strain gauges (6), one of the ends of said bar being connected to a fastener (3), the other end being connected to a load applying element (4), where the body of test (1) flexes according to an S shaped form as a symmetrical double cantilever.

8. (Original) Weight sensor according to claim 7, characterized in that it is produced in the form of metal plate having a fastener (3) in the shape of a framework (3a) or U, connected in the middle of its base to a first end of a body of test (1) extending at the interior of the fastener (3), the opposite end of the body of test (1) being connected to a load receiving element (4) in the form of a U, extending in a symmetrical manner relative to the body (1), with the arms (4a,4b) parallel to the body (1) and directed towards said first end of the body (1).

9. (Previously presented) Electronic weighing appliance having at least one sensor according to claim 1.

10. (Previously presented) Electronic weighing appliance having at least one sensor according to claim 2.

11. (Previously presented) Electronic weighing appliance having at least one sensor according to claim 3.

12. (Previously presented) Electronic weighing appliance having at least one sensor according to claim 4.

13. (Previously presented) Electronic weighing appliance having at least one sensor according to claim 5.

14. (Previously presented) Electronic weighing appliance having at least one sensor according to claim 6.

15. (Previously presented) Electronic weighing appliance having at least one sensor according to claim 7.

16. (Previously presented) Electronic weighing appliance having at least one sensor according to claim 8.

17. (New) Weight sensor according to claim 1, wherein said support is a ceramic plate or sheet and said strain gauges are deposited on said ceramic by serigraphy.

18. (New) Weight sensor comprising: a support of an electrically insulating material; strain gauges deposited in a thick film on said support; and a metal body deformable primarily in flexure, wherein: said metal body has a Young's modulus E_1 , said support is of a ceramic material having a Young's modulus E_2 , E_2 is equal to or lower than that E_1 , and said support is applied to said metal body by adhering thereto.